

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/08/908,469

DATE: 10/15/2001  
TIME: 16:14:37

Input Set : A:\P1093pl.txt  
Output Set: N:\CRF3\10152001\H908469.raw

## SEQUENCE LISTING

5 (1) GENERAL INFORMATION:  
7 (i) APPLICANT: Baca, Manuel  
8 Wells, James A.  
9 Presta, Leonard G.  
10 Lowman, Henry B.  
11 Chen, Yvonne M.  
13 (ii) TITLE OF INVENTION: ANTI-VEGF ANTIBODIES  
15 (iii) NUMBER OF SEQUENCES: 131  
17 (iv) CORRESPONDENCE ADDRESS:  
18 (A) ADDRESSEE: Genentech, Inc.  
19 (B) STREET: 1 DNA Way  
20 (C) CITY: South San Francisco  
21 (D) STATE: California  
22 (E) COUNTRY: USA  
23 (F) ZIP: 94080  
25 (v) COMPUTER READABLE FORM:  
26 (A) MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk  
27 (B) COMPUTER: IBM PC compatible  
28 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
29 (D) SOFTWARE: WinPatin (Genentech)  
31 (vi) CURRENT APPLICATION DATA:  
C--> 32 (A) APPLICATION NUMBER: US/08/908,469  
C--> 33 (B) FILING DATE: 06-Aug-1997  
34 (C) CLASSIFICATION:  
36 (vii) PRIOR APPLICATION DATA:  
37 (A) APPLICATION NUMBER: 08/833,504  
38 (B) FILING DATE: 07-APR-1997  
40 (viii) ATTORNEY/AGENT INFORMATION:  
41 (A) NAME: Cui, Steven X.  
42 (B) REGISTRATION NUMBER: 44,637  
43 (C) REFERENCE/DOCKET NUMBER: P1093P1  
45 (ix) TELECOMMUNICATION INFORMATION:  
46 (A) TELEPHONE: 650/225-8674  
47 (B) TELEFAX: 650/952-9881  
48 (2) INFORMATION FOR SEQ ID NO: 1:  
50 (i) SEQUENCE CHARACTERISTICS:  
51 (A) LENGTH: 10 amino acids  
52 (B) TYPE: Amino Acid  
53 (D) TOPOLOGY: Linear  
55 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
57 Gly Tyr Thr Phe Thr Asn Tyr Gly Met Asn  
58 1 5 10  
60 (2) INFORMATION FOR SEQ ID NO: 2:  
62 (i) SEQUENCE CHARACTERISTICS:  
63 (A) LENGTH: 17 amino acids  
64 (B) TYPE: Amino Acid

ENTERED

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```

65         (D) TOPOLOGY: Linear
67     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
68 Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr Ala Ala Asp Phe
69     1             5             10             15
70 Lys Arg
71
72 (2) INFORMATION FOR SEQ ID NO: 3:
73     (i) SEQUENCE CHARACTERISTICS:
74         (A) LENGTH: 14 amino acids
75         (B) TYPE: Amino Acid
76         (D) TOPOLOGY: Linear
77     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
78 Tyr Pro His Tyr Tyr Gly Ser Ser His Trp Tyr Phe Asp Val
79     1             5             10
80
81 (2) INFORMATION FOR SEQ ID NO: 4:
82     (i) SEQUENCE CHARACTERISTICS:
83         (A) LENGTH: 11 amino acids
84         (B) TYPE: Amino Acid
85         (D) TOPOLOGY: Linear
86     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
87 Ser Ala Ser Gln Asp Ile Ser Asn Tyr Leu Asn
88     1             5             10
89
90 (2) INFORMATION FOR SEQ ID NO: 5:
91     (i) SEQUENCE CHARACTERISTICS:
92         (A) LENGTH: 7 amino acids
93         (B) TYPE: Amino Acid
94         (D) TOPOLOGY: Linear
95     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
96 Phe Thr Ser Ser Leu His Ser
97     1             5
98
99 (2) INFORMATION FOR SEQ ID NO: 6:
100     (i) SEQUENCE CHARACTERISTICS:
101         (A) LENGTH: 9 amino acids
102         (B) TYPE: Amino Acid
103         (D) TOPOLOGY: Linear
104     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
105 Gln Gln Tyr Ser Thr Val Pro Trp Thr
106     1             5
107
108 (2) INFORMATION FOR SEQ ID NO: 7:
109     (i) SEQUENCE CHARACTERISTICS:
110         (A) LENGTH: 123 amino acids
111         (B) TYPE: Amino Acid
112         (D) TOPOLOGY: Linear
113     (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
114 Glu Val Gln Leu Val Glu Ser Gly Gly Leu Val Gln Pro Gly
115     1             5             10             15
116 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Tyr Thr Phe Thr
117     20             25             30
118 Asn Tyr Gly Met Asn Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
119     35             40             45

```

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```

141  Glu Trp Val Gly Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr
142                      50                      55                      60
144  Ala Ala Asp Phe Lys Arg Arg Phe Thr Phe Ser Leu Asp Thr Ser
145                      65                      70                      75
147  Lys Ser Thr Ala Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
148                      80                      85                      90
150  Thr Ala Val Tyr Tyr Cys Ala Lys Tyr Pro His Tyr Tyr Gly Ser
151                      95                      100                     105
153  Ser His Trp Tyr Phe Asp Val Trp Gly Gln Gly Thr Leu Val Thr
154                      110                     115                     120

```

156 Val Ser Ser

159 (2) INFORMATION FOR SEQ ID NO: 8:

161 (i) SEQUENCE CHARACTERISTICS:

162 (A) LENGTH: 108 amino acids

163 (B) TYPE: Amino Acid

164 (D) TOPOLOGY: Linear

166 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

```

168  Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val
169    1                      5                      10                      15
171  Gly Asp Arg Val Thr Ile Thr Cys Ser Ala Ser Gln Asp Ile Ser
172                      20                      25                      30
174  Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
175                      35                      40                      45
177  Val Leu Ile Tyr Phe Thr Ser Ser Leu His Ser Gly Val Pro Ser
178                      50                      55                      60
180  Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile
181                      65                      70                      75
183  Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln
184                      80                      85                      90
186  Tyr Ser Thr Val Pro Trp Thr Phe Gly Gln Gly Thr Lys Val Glu
187                      95                      100                     105
189  Ile Lys Arg

```

192 (2) INFORMATION FOR SEQ ID NO: 9:

194 (i) SEQUENCE CHARACTERISTICS:

195 (A) LENGTH: 123 amino acids

196 (B) TYPE: Amino Acid

197 (D) TOPOLOGY: Linear

199 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

```

201  Glu Ile Gln Leu Val Gln Ser Gly Pro Glu Leu Lys Gln Pro Gly
202    1                      5                      10                      15
204  Glu Thr Val Arg Ile Ser Cys Lys Ala Ser Gly Tyr Thr Phe Thr
205                      20                      25                      30
207  Asn Tyr Gly Met Asn Trp Val Lys Gln Ala Pro Gly Lys Gly Leu
208                      35                      40                      45
210  Lys Trp Met Gly Trp Ile Asn Thr Tyr Thr Gly Glu Pro Thr Tyr
211                      50                      55                      60
213  Ala Ala Asp Phe Lys Arg Arg Phe Thr Phe Ser Leu Glu Thr Ser
214                      65                      70                      75
216  Ala Ser Thr Ala Tyr Leu Gln Ile Ser Asn Leu Lys Asn Asp Asp

```

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```

217      80      85      90
219 Thr Ala Thr Tyr Phe Cys Ala Lys Tyr Pro His Tyr Tyr Gly Ser
220      95      100      105
222 Ser His Trp Tyr Phe Asp Val Trp Gly Ala Gly Thr Thr Val Thr
223      110      115      120
225 Val Ser Ser
228 (2) INFORMATION FOR SEQ ID NO: 10:
230 (i) SEQUENCE CHARACTERISTICS:
231 (A) LENGTH: 108 amino acids
232 (B) TYPE: Amino Acid
233 (D) TOPOLOGY: Linear
235 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
237 Asp Ile Gln Met Thr Gln Thr Thr Ser Ser Leu Ser Ala Ser Leu
238 1 5 10 15
240 Gly Asp Arg Val Ile Ile Ser Cys Ser Ala Ser Gln Asp Ile Ser
241 20 25 30
243 Asn Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Asp Gly Thr Val Lys
244 35 40 45
246 Val Leu Ile Tyr Phe Thr Ser Ser Leu His Ser Gly Val Pro Ser
247 50 55 60
249 Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Ser Leu Thr Ile
250 65 70 75
252 Ser Asn Leu Glu Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln
253 80 85 90
255 Tyr Ser Thr Val Pro Trp Thr Phe Gly Gly Gly Thr Lys Leu Glu
256 95 100 105
258 Ile Lys Arg
261 (2) INFORMATION FOR SEQ ID NO: 11:
263 (i) SEQUENCE CHARACTERISTICS:
264 (A) LENGTH: 113 amino acids
265 (B) TYPE: Amino Acid
266 (D) TOPOLOGY: Linear
268 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
270 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly
271 1 5 10 15
273 Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe Ser
274 20 25 30
276 Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
277 35 40 45
279 Glu Trp Val Ser Val Ile Ser Gly Asp Gly Gly Ser Thr Tyr Tyr
280 50 55 60
282 Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser
283 65 70 75
285 Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp
286 80 85 90
288 Thr Ala Val Tyr Tyr Cys Ala Arg Gly Phe Asp Tyr Trp Gly Gln
289 95 100 105
291 Gly Thr Leu Val Thr Val Ser Ser
292 110

```

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294 (2) INFORMATION FOR SEQ ID NO: 12:

296 (i) SEQUENCE CHARACTERISTICS:

297 (A) LENGTH: 108 amino acids

298 (B) TYPE: Amino Acid

299 (D) TOPOLOGY: Linear

301 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

303	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val
304	1				5				10					15	
306	Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Ser
307					20				25					30	
309	Asn	Tyr	Leu	Ala	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys
310					35				40					45	
312	Leu	Leu	Ile	Tyr	Ala	Ala	Ser	Ser	Leu	Glu	Ser	Gly	Val	Pro	Ser
313					50				55					60	
315	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile
316					65				70					75	
318	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln
319					80				85					90	
321	Tyr	Asn	Ser	Leu	Pro	Trp	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu
322					95				100					105	
324	Ile	Lys	Arg												

327 (2) INFORMATION FOR SEQ ID NO: 13:

329 (i) SEQUENCE CHARACTERISTICS:

330 (A) LENGTH: 107 amino acids

331 (B) TYPE: Amino Acid

332 (D) TOPOLOGY: Linear

334 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

336	Asp	Ile	Gln	Met	Thr	Gln	Ser	Pro	Ser	Ser	Leu	Ser	Ala	Ser	Val
337	1				5				10					15	
339	Gly	Asp	Arg	Val	Thr	Ile	Thr	Cys	Ser	Ala	Ser	Gln	Asp	Ile	Ser
340					20				25					30	
342	Asn	Tyr	Leu	Asn	Trp	Tyr	Gln	Gln	Lys	Pro	Gly	Lys	Ala	Pro	Lys
343					35				40					45	
345	Leu	Leu	Ile	Tyr	Phe	Thr	Ser	Ser	Leu	His	Ser	Gly	Val	Pro	Ser
346					50				55					60	
348	Arg	Phe	Ser	Gly	Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile
349					65				70					75	
351	Ser	Ser	Leu	Gln	Pro	Glu	Asp	Phe	Ala	Thr	Tyr	Tyr	Cys	Gln	Gln
352					80				85					90	
354	Tyr	Ser	Thr	Val	Pro	Trp	Thr	Phe	Gly	Gln	Gly	Thr	Lys	Val	Glu
355					95				100					105	
357	Ile	Lys													

360 (2) INFORMATION FOR SEQ ID NO: 14:

362 (i) SEQUENCE CHARACTERISTICS:

363 (A) LENGTH: 123 amino acids

364 (B) TYPE: Amino Acid

365 (D) TOPOLOGY: Linear

367 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

369 Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln Pro Gly

## VERIFICATION SUMMARY

PATENT APPLICATION: US/08/908,469

DATE: 10/15/2001

TIME: 16:14:38

Input Set : A:\P1093pl.txt

Output Set: N:\CRF3\10152001\H908469.raw

L:32 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]  
L:33 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]  
L:2469 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119  
L:2481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120  
L:2496 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:121  
L:2508 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122  
L:2520 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123  
L:2544 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125  
L:2556 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126  
L:2592 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127  
L:2595 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127  
L:2607 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:127  
L:2649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:130  
L:2661 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:131